



10-07-04

IPW

Practitioner's Docket No.: 791_200 CON

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: Yukihisa TAKEUCHI, Hiroyuki TSUJI, Kazumasa KITAMURA and Yoshinori YAMAGUCHI

Ser. No.: 10/784,558

Art Unit: 2831

Filed: February 23, 2004

Examiner: Ha, Nguyen T.

Confirmation No.: 8665

For: MULTILAYER BOARD HAVING PRECISE PERFORATIONS AND CIRCUIT SUBSTRATE HAVING PRECISE THROUGH-HOLES

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on October 6, 2004 under "EXPRESS MAIL" mailing label number EV 472820859 US.


Elizabeth A. VanAntwerp

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97(c)

TIME OF TRANSMITTAL OF ACCOMPANYING
INFORMATION DISCLOSURE STATEMENT

1. The information disclosure statement transmitted herewith is being filed *after* three months of the filing date of this national application or the date of entry of the national stage as set forth in §1.491 in an international application or after the mailing date of the first Office action on the merits, whichever event occurred last but *before* the mailing date of either:
 - (1) a final action under §1.113,
 - (2) a notice of allowance under §1.311 or
 - (3) an Office Action that closes prosecution.

STATEMENT OR SUBMISSION FEE

2. Accompanying this transmittal is
 - A. a statement as specified in 37 CFR §1.97(e).

OR

- B. the submission fee set forth in 37 CFR §1.17(p) for submission of an information disclosure statement under §1.97(c). (\$180.00).

Fee due: \$00.00

METHOD OF PAYMENT OF FEE

3. Attached is a check in the amount of \$_____.
- Charge Account No. 50-1446 in the amount of \$_____. A duplicate of this request is attached.
4. If any additional fees are due, please charge Deposit Account 50-1446.

October 6, 2004

Date

Respectfully submitted,



Stephen P. Burr
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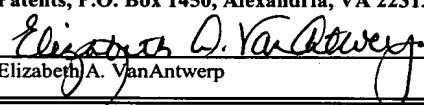
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Elizabeth A. VanAntwerp

CERTIFICATION UNDER 37 CFR §1.97(e)

Sir:

- Each item of information contained in the Information Disclosure Statement filed herewith was *first* cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

OR

- No item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

Respectfully submitted,


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Elizabeth A. VanAntwerp

INFORMATION DISCLOSURE STATEMENT

Sir:

Pursuant to 37 C.F.R. §1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. Required copies of the references listed on Form PTO-1449 are attached.

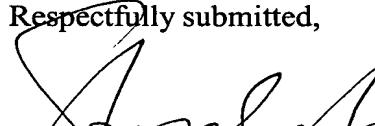
Also enclosed is a copy of a European Search Report bearing a mailing date of September 13, 2004 from a corresponding European patent application, and the U.S. PTO is directed thereto for a concise statement of possible relevance of the references cited therein.

The above information is presented so that the Patent and Trademark Office may, in the first instance, determine any materiality thereof to the claimed invention. It is respectfully requested that the information be expressly considered during the prosecution of this

application, and that these references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

The Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. 50-1446.

Respectfully submitted,



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OCT 06 2004

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

1

Complete if Known	
Application Number	10/784,558
Filing Date	February 23, 2004
First Named Inventor	Yukihisa TAKEUCHI
Art Unit	2831
Examiner Name	Ha, Nguyen T.
Confirmation No.	8665
Sheet	1
Attorney Docket No.	791_200 CON

U.S. PATENT DOCUMENTS

Exam. Initial		Document Number	Date	Name	Our Docket No.	Class	Sub Class	Filing Date
	AA*	5,628,502	05-13-1997	Amarakoon				
	AB*	5,118,458	06-02-1992	Nishihara et al.				
	AC*	5,487,218	01-30-1996	Bhatt et al.				

U.S. RELATED CO-PENDING APPLICATIONS

Exam. Initial		Application/ Publication Number	Filing/ Publication Date	Inventor Name	Our Docket No.	Class	Sub Class

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub Class	Translation	Abstract
	AD	09-019914 A1	01-21-1997	JP				✓
	AE	1 228 651	04-15-1971	GB				

OTHER DOCUMENTS
(Including Author, Title, Date, Pertinent Pages etc.)

AF	Proceedings of 3rd International Conference on Multichip Moudles, SPIE Vol. 2256, Denver, CO, 13-15 April 1994, 1994, pages 173-181, XP008033939, Reston, VA ISHM-Microelectronic Society, USA

Examiner:	Date Considered:
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*In accordance with the Notice dated July 11, 2003 on the PTO website, we are not enclosing copies of any of the U.S. references listed above.